[Quick Start Guide]

INFINIBAND ADAPTER INSTALLATION

QLOGIC

Purchasers of OEM products should consult with the OEM for support.

Please feel free to contact your QLogic approved reseller or QLogic Technical Support at any phase of integration for assistance. QLogic Technical Support can be reached by the following methods:

Web http://support.qlogic.com

E-mail support@qlogic.com

The QLogic knowledge database contains troubleshooting information for the QLogic adapters. Access the data base from the QLogic Support Web page, http://support.qlogic.com. Use the Support Center search engine to look for specific troubleshooting information.

Products Affected

Product Name	Part Number
QLE7140	IB6110401
QLE7240	IB6310406
QLE7280	IB6310406
QLE7340	IB6410401
QLE7342	IB6410401
QME7342	CU0310408
QME7362	CU0310413
QMH7342	CU0410416

Quick Start Guide

Installation Instructions

This Quick Start Guide describes how to install and configure your new QLogic InfiniBand Adapter in three simple steps:

- Step 1. Verify the package contents.
- Step 2. Install the adapter hardware.
- Step 3. Install the QLogic OFED+ host software.

CAUTION!

Keep the adapter in the antistatic bag until installation. The adapter contains parts that can be damaged by ESD. Before handling the adapter, use standard methods to discharge static electricity. Place the adapter on the bag when examining it. Retain the bag for future use.

Step 1. Verify the Package Contents

The QLogic adapter is shipped with the following items:

- QLogic adapter
- Low-profile bracket (not available in all models)
- *Quick Start Guide* (this document)

Step 2. Install the Adapter Hardware

NOTE: For QME7342, QME7362 or QMH7342 mezzanine card installation instructions, please refer to your server hardware owners manual.

To install the adapter hardware, you need to open the computer and locate the appropriate bus slot. If necessary, consult your computer system manual for instructions to remove the computer cover.

Follow these steps to install the adapter hardware:

1. Power off the computer and all attached devices such as monitors, printers, and external components.
2. Remove the computer cover and find an empty PCIe x8 (or larger) bus slot.
3. Pull out the slot cover (if any) by removing the screw or releasing the lever.
4. Install the low-profile bracket (if required).
5. Grasp the adapter by the top edge and seat it firmly into the appropriate slot (see Figure 1. on page 4).
6. Refasten the adapter's retaining bracket using the existing screw or lever.
7. Close the computer cover.
8. Plug an appropriate InfiniBand cable into the adapter.
9. Plug in the power cable and turn on the computer.

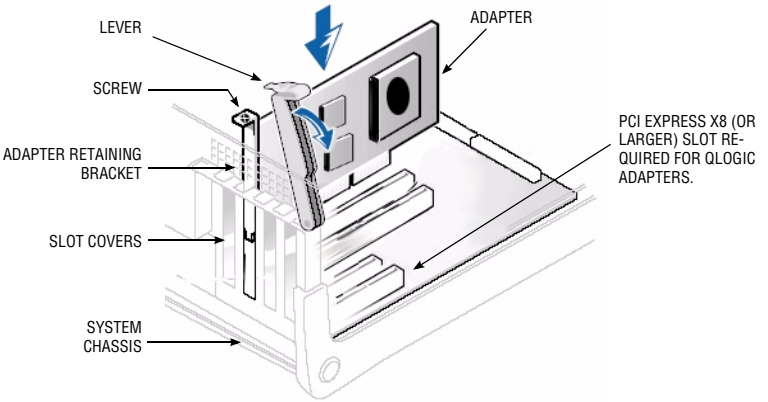

Figure 1. Illustration of Server Motherboard and Slots

Step 3. Install the QLogic OFED+ Host Software

The QLogic OFED+ host software can be downloaded from the QLogic web site, www.qlogic.com. Click the **Downloads** tab, and follow the links for your adapter model.

The QLogic OFED+ host software is available in the following configurations:

- TUI installation of the QLogic OFED+ host software
- TUI Installation of RPMs on top of OFED
- Installation of QLogic OFED+ using Clustercorp Rocks®+Roll
- Installation of QLogic OFED+ using the Platform Cluster Manager (PCM) kit

For more information, see the detailed descriptions on the QLogic Downloads page.

In addition to these packages, the InfiniBand Fabric Suite (IFS)™ software allows you to manage, install, update, configure, and verify InfiniBand clusters. The IFS package is purchased separately. Check with your local QLogic Sales Representative for details.

To install the QLogic OFED+ Host software, refer to the instructions in the *QLogic Fabric Software Installation Guide*. The link to this document can be found on the same page as the software driver downloads.

Congratulations! You have successfully installed your QLogic Adapter!

- To obtain the most current drivers, management tools, user instructions, and documentation, please visit the QLogic Web site at http://support.qlogic.com/support/drivers_software.aspx and download the latest versions.
- The following section contains additional information about the QLogic adapter, including the LED scheme, troubleshooting, warranty, and certification information.

Adapter LEDs

Table 1. QLogic InfiniBand Adapter LED Scheme

LED States	Indication
Green Off Amber Off	The switch is not powered up. The software is neither installed nor started. Loss of signal. Verify that the software is installed and configured with `ipath_control -i`. If the software is working properly, check both cable connectors.
Green On Amber Off	Signal detected and the physical link is up. Ready to talk to the Subnet Manager (SM) to bring the link fully up. If this state persists, the SM may be missing or the link may not be configured. Use `ipath_control -i` to verify the software state. If all adapters are in this state, then the SM is not running. Check the SM configuration, or install and run `opensmd`.
Green On Amber On	The link is configured, properly connected, and ready. Signal detected. Ready to talk to an SM to bring the link fully up. The link is configured, properly connected, and ready to receive data and link packets.
Green Blinking (quickly) Amber On	Indicates traffic
Green Blinking [a] Amber Blinking	Locates the adapter This feature is controlled by `ipath_control -b [On | Off]`

a.This feature is available only on the QLE7240 and QLE7280 adapters.

Warranty

For warranty details, please check the QLogic Web site at http://www.qlogic.com/Support/warranty.aspx.

Agency Certification
QLogic Adapters

The following sections contain a summary of EMI test specifications performed on the QLogic interconnect hardware adapters and mezzanine cards to comply with emission, immunity, product safety standards, and regulatory compliance markings.

EMI Requirements Compliance Statements

United States

FCC Part 15 compliance: Class A. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7342
- QME7362

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at their own expense.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operations.

Changes or modifications not expressly approved by QLogic could void the user's authority to operate the equipment.

Canada

ICES-003 compliance: Class A.

- This Class A digital apparatus complies with Canadian ICES-003.
- Cet appareil numériqué de la classe A est conformé à la norme NMB-003 du Canada.

The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7342
- QME7362

Europe

CE Mark 89/336/EEC (modified by 93/68/CEE), 73/23/EEC EMC Directive compliance, 2004/108/EC-2006/95/EC:

WARNING!! This is a Class A product. In a domestic environment this product may cause radio interference. In which case, the user may be required to take adequate measures.

EN55024:1998, (Amds A1:2001, A2:2003). The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342

EN55022:2006 +A1:2007/IEC CISPR 22:2005+A1:2005 Class A. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7342
- QME7362

EN61000-3-2:2006. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7362

EN61000-3-3:1995+A1:2001+A2:2005: 2008. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7342
- QME7362

EN55024:1998, (Amds A1:2001, A2:2003)/CISPR24:1997+A1 2001+A2:2002. The following adapters and mezzanine cards comply:

- QME7342
- QME7362

Japan

VCCI compliance: VCCI V-3/2009.04; V-4/2009.04 Class A;

VCCI:2007-04 Class A. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7342
- QME7362

Japanese Language Format-Class A

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準に基づくクラスＡ情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

English translation of the previous statement:

This is class A product based on the standard of the Voluntary Control Council For Interference by Information Technology Equipment (VCCI). If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

Australia/New Zealand

AS/NZS: EN55022:2006+A1 2007. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QME7342

AS/NZS: CISPR 22:2005 Class A. The following adapters and mezzanine cards comply:

- QME7342

AS/NZS: CISPR 22:2006 Class A. The following adapters and mezzanine cards comply:

- QLE7340
- QLE7342

AS/NZS: CISPR 22:2009 Class A. The following adapters and mezzanine cards comply:

- QME7362

WARNING!! This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

Korea

MIC compliance: Class A. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342
- QME7342
- QME7362

Product Name/Model	QLogic Host Channel Adapters
Certification holder	QLogic Corporation
Manufactured date	Refer to date code listed on product
Manufacturer/Country of origin	QLogic Corporation/USA

Korean Language Format-Class A

A급 기기 (업무용 정보통신기기)

이 기기는 업무용으로 전자파적합등록을 한 기기이오니
판매자 또는 사용자는 이 점을 주의하시기 바라며, 만약
잘못판매 또는 구입하였을 때에는 가정용으로 교환하시기
바랍니다.

English translation of the previous statement:

A class equipment (business purpose info/telecommunications equipment). As this equipment has undergone EMC registration for business purpose, the seller and/or the buyer is asked to beware of this point and in case a wrongful sale or purchase has been made, it is asked that a change to household use be made.

Taiwan

BSMI Certification: Class A Certified. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QLE7340
- QLE7342

Product Name/Model	QLogic Host Channel Adapters
Certification holder	QLogic Corporation
Manufactured date	Refer to date code listed on product
Manufacturer/Country of origin	QLogic Corporation/USA

Chinese Language Format-Class A

警告使用者

這是甲類的資訊產品，在居住的環境中使用時，
可能會造成射頻干擾，在這種情況下，使用者會
被要求採取某些適當的對策。

English translation of the above statement:

WARNING!! This is a class A product. In domestic environments this product may cause interference, in which case the user may be required to take adequate measures.

Product Safety Compliance

UL, cUL product safety compliance

Use only with listed ITE or equivalent.

UL60950-1:2003, First Edition. The following adapters and mezzanine cards comply:

- QLE7140

UL60950-1 (1st edition). The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280

UL60950-1 (1st edition) 2007. The following adapters and mezzanine cards comply:

- QLE7340
- QLE7342
- QME7342

UL60950-1 (2nd edition) 2007. The following adapters and mezzanine cards comply:

- QME7362

cUL: CSA C22.2 60950-1 (1st Edition). The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280

cUL: CSA C22.2 No. 60950-1-03 1st Ed. April 1, 2003. The following adapters and mezzanine cards comply:

- QLE7140

cUL: CSA C22.2 No. 60950-1-03 1st Ed. 2006-2007. The following adapters and mezzanine cards comply:

- QLE7340
- QLE7342

cUL: CSA C22.2 No. 60950-1-07 2ne Ed. 2007. The following adapters and mezzanine cards comply:

- QME7342
- QME7362

Use only with listed ITE or equivalent.

TUV
EN60950:2001+A11. The following adapters and mezzanine cards comply:

- QLE7140
- QLE7240
- QLE7280

EN60950:2006 +A11. The following adapters and mezzanine cards comply:

- QMH7342

EN60950-1:2006, IEC 60950-1 CB certified (2nd edition). The following adapters and mezzanine cards comply:

- QLE7340
- QLE7342
- QME7342
- QME7362

IEC 60950-1 :2005 2nd Edition. The following adapters and mezzanine cards comply:

- QLE7240
- QLE7280
- QMH7342

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